

Kai Wang

List of Publications by Year in descending order

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33
papers

3,847
citations

218677

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395702

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docs citations

33
times ranked

5059
citing authors

#	ARTICLE	IF	CITATIONS
1	Iridium-Based Multimetallic Porous Hollow Nanocrystals for Efficient Overall Water Splitting Catalysis. <i>Advanced Materials</i> , 2017, 29, 1703798.	21.0	460
2	Single-atom cobalt array bound to distorted 1T MoS ₂ with ensemble effect for hydrogen evolution catalysis. <i>Nature Communications</i> , 2019, 10, 5231.	12.8	371
3	Freestanding film made by necklace-like N-doped hollow carbon with hierarchical pores for high-performance potassium-ion storage. <i>Energy and Environmental Science</i> , 2019, 12, 1605-1612.	30.8	349
4	Metallic Graphene-Like VSe ₂ Ultrathin Nanosheets: Superior Potassium Ion Storage and Their Working Mechanism. <i>Advanced Materials</i> , 2018, 30, e1800036.	21.0	341
5	Pistachio-Shuck-Like MoSe ₂ /C Core/Shell Nanostructures for High-Performance Potassium Ion Storage. <i>Advanced Materials</i> , 2018, 30, e1801812.	21.0	297
6	Emerging Dual-Atomic Site Catalysts for Efficient Energy Catalysis. <i>Advanced Materials</i> , 2021, 33, e2102576.	21.0	226
7	Ultrathin PtNiM (M = Rh, Os, and Ir) Nanowires as Efficient Fuel Oxidation Electrocatalytic Materials. <i>Advanced Materials</i> , 2019, 31, e1805833.	21.0	223
8	Iridium-Tungsten Alloy Nanodendrites as pH-Universal Water-Splitting Electrocatalysts. <i>ACS Central Science</i> , 2018, 4, 1244-1252.	11.3	196
9	Thermolysis of Noble Metal Nanoparticles into Electron-Rich Phosphorus-Coordinated Noble Metal Single Atoms at Low Temperature. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14184-14188.	13.8	136
10	Wrinkled Rh ₂ P Nanosheets as Superior pH-Universal Electrocatalysts for Hydrogen Evolution Catalysis. <i>Advanced Energy Materials</i> , 2018, 8, 1801891.	19.5	116
11	Single-atom catalyst for high-performance methanol oxidation. <i>Nature Communications</i> , 2021, 12, 5235.	12.8	113
12	Ir-Based Alloy Nanoflowers with Optimized Hydrogen Binding Energy as Bifunctional Electrocatalysts for Overall Water Splitting. <i>Small Methods</i> , 2020, 4, 1900129.	8.6	93
13	Ultrathin RuRh Alloy Nanosheets Enable High-Performance Lithium-CO ₂ Battery. <i>Matter</i> , 2020, 2, 1494-1508.	10.0	91
14	Core-shell nano-FeS ₂ @N-doped graphene as an advanced cathode material for rechargeable Li-ion batteries. <i>Chemical Communications</i> , 2016, 52, 986-989.	4.1	84
15	WO _x Surface Decorated PtNi@Pt Dendritic Nanowires as Efficient pH-Universal Hydrogen Evolution Electrocatalysts. <i>Advanced Energy Materials</i> , 2021, 11, 2003192.	19.5	82
16	Porous ZrNb ₂₄ O ₆₂ nanowires with pseudocapacitive behavior achieve high-performance lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22297-22304.	10.3	71
17	Designing noble metal single-atom-loaded two-dimension photocatalyst for N ₂ and CO ₂ reduction via anion vacancy engineering. <i>Science Bulletin</i> , 2020, 65, 720-725.	9.0	67
18	Intermetallic Pd ₃ Pb Nanoplates Enhance Oxygen Reduction Catalysis with Excellent Methanol Tolerance. <i>Small Methods</i> , 2018, 2, 1700331.	8.6	66

#	ARTICLE	IF	CITATIONS
19	A highly efficient atomically thin curved PdIr bimetallic electrocatalyst. National Science Review, 2021, 8, nwab019.	9.5	59
20	Metal Single Atom Strategy Greatly Boosts Photocatalytic Methyl Activation and C-C Coupling for the Coproduction of High-Value-Added Multicarbon Compounds and Hydrogen. ACS Catalysis, 2020, 10, 9109-9114.	11.2	47
21	Tuning structural stability and lithium-storage properties by d-orbital hybridization substitution in full tetrahedron Li ₂ FeSiO ₄ nanocrystal. Nano Energy, 2016, 20, 117-125.	16.0	44
22	Enhanced electron transfer and light absorption on imino polymer capped PdAg nanowire networks for efficient room-temperature dehydrogenation of formic acid. Journal of Materials Chemistry A, 2018, 6, 1979-1984.	10.3	43
23	Soft-contact conductive carbon enabling depolarization of LiFePO ₄ cathodes to enhance both capacity and rate performances of lithium ion batteries. Journal of Power Sources, 2016, 331, 232-239.	7.8	41
24	Fast rechargeable all-solid-state lithium ion batteries with high capacity based on nano-sized Li ₂ FeSiO ₄ cathode by tuning temperature. Nano Energy, 2015, 16, 112-121.	16.0	37
25	Enhanced bifunctional fuel cell catalysis via Pd/PtCu core/shell nanoplates. Chemical Communications, 2018, 54, 1315-1318.	4.1	37
26	3D PtFe Clusters with Cube-in-Cube Structure Enhance Oxygen Reduction Catalysis and Electrochemical Sensing. Small Methods, 2018, 2, 1800073.	8.6	34
27	Thermolysis of Noble Metal Nanoparticles into Electron-Rich Phosphorus-Coordinated Noble Metal Single Atoms at Low Temperature. Angewandte Chemie, 2019, 131, 14322-14326.	2.0	28
28	Ultrathin RuRh@(RuRh) ₂ core@shell nanosheets as stable oxygen evolution electrocatalysts. Journal of Materials Chemistry A, 2020, 8, 15746-15751.	10.3	24
29	Depolarization effects of Li ₂ FeSiO ₄ nanocrystals wrapped in different conductive carbon networks as cathodes for high performance lithium-ion batteries. RSC Advances, 2016, 6, 47723-47729.	3.6	19
30	Sn(II,IV) steric and electronic structure effects enable self-selective doping on Fe/Si-sites of Li ₂ FeSiO ₄ nanocrystals for high performance lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 24437-24445.	10.3	15
31	Ultrathin Metallic NbS ₂ Nanosheets with Unusual Intercalation Mechanism for Ultra-Stable Potassium-Ion Storage. Advanced Functional Materials, 2022, 32, .	14.9	15
32	BiOCl/ultrathin polyaniline core/shell nanosheets with a sensitization mechanism for efficient visible-light-driven photocatalysis. Science China Materials, 2019, 62, 95-102.	6.3	14
33	FeOx and Si nano-dots as dual Li-storage centers bonded with graphene for high performance lithium ion batteries. Nanoscale, 2015, 7, 14344-14350.	5.6	8